

1 14. The method defined in claim 13 wherein said portion
2 of said conductor having said resistance is a piece of current
3 supply line connecting the power line with said motor-control
4 circuit.

1 15. The method defined in claim 13 wherein the voltage
2 drop is measured and the current draw is calculated from said
3 voltage drop by a computing unit forming part of said motor-control
4 circuit.

1 16. The method defined in claim 13 wherein a current
2 measured in said portion of said conductor is converted into a
3 current draw of said pump.

1 17. The method defined in claim 13 wherein in
2 calculating said current draw from said voltage drop, a computer
3 unit forming part of said motor control circuit *compensates for*
4 regulating action in response to a temperature of said portion of
5 said conductor.

1 18. An electronically controlled pump assembly
2 comprising:

3 an electric motor having a power line connected thereto
4 for energizing said electric motor;

5 a motor control circuit connected to said motor and said
6 power line for electronically controlling said pump assembly;

7 a pump driven by said motor; and
8 means for measuring a voltage drop across at least a
9 portion of a conductor ^{*in the form of a wire segment*} having a definite resistance and connecting
10 said power line with said motor control circuit and calculating
11 said current draw from said voltage drop.

1 19. The assembly defined in claim 18 wherein said
2 portion of said conductor is a piece of resistance wire with a
3 known specific resistance and a defined length.

1 20. The assembly defined in claim 18 wherein said
2 portion of said conductor is a bridge between a plug contact to
3 which said power line is connected and a printed circuit board
4 carrying said motor control circuit, said bridge having a defined
5 resistance.

1 21. The assembly defined in claim 18 wherein said
2 resistance is between 1 and 5 mΩ.

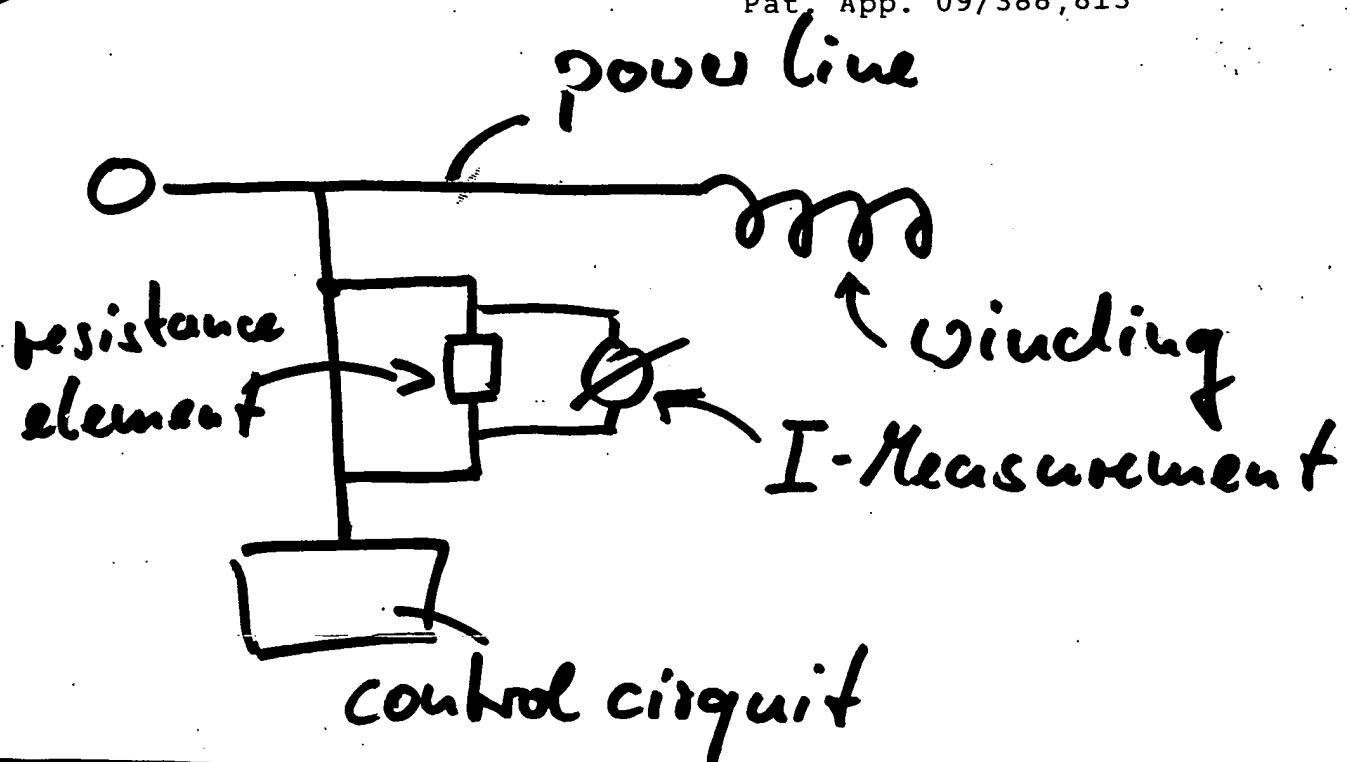
1 22. The assembly defined in claim 18, further comprising
2 a processor forming part of said motor control circuit and
3 constituting the means for measuring and calculating.

1 23. The assembly defined in claim 18 wherein said
2 processor is provided to effect a regulatory action in response to
3 the temperature of said portion of said conductor.

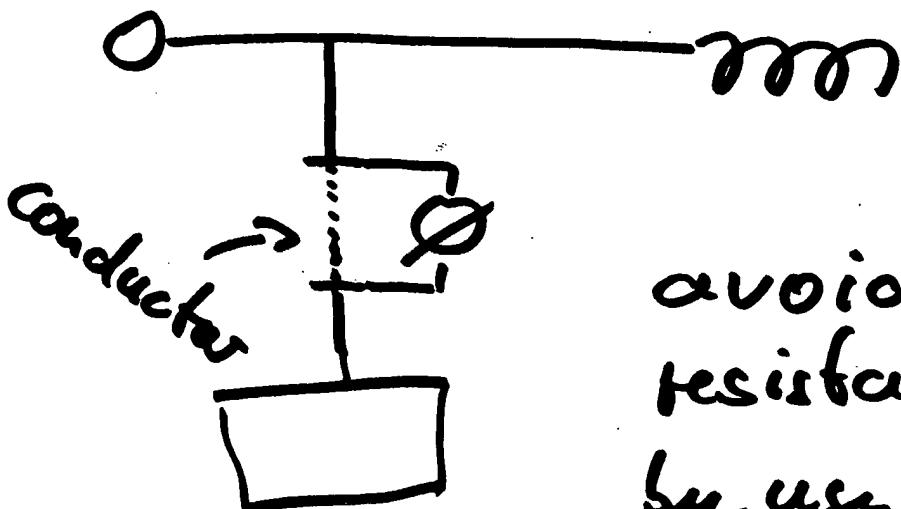
State of the art

21222

Pat. App. 09/388,813



invention



avoid the
resistance element
by use of a
conductor having
known resistance.

Claims 13-23 are thus deemed to be allowable and an early
Notice to that effect is earnestly solicited.

Respectfully submitted,
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Enclosures: Claims 13, 17 and 18
Marked-up version of claims 13, 17, 18
Sketch showing invention